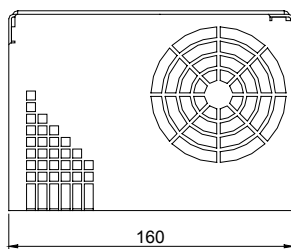
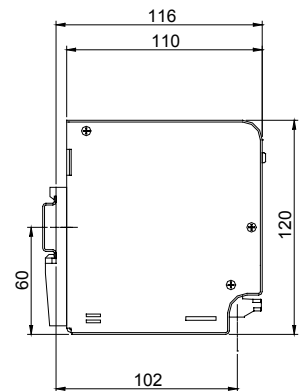
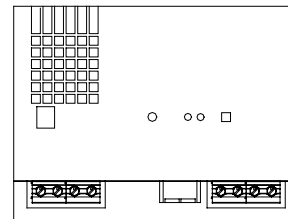
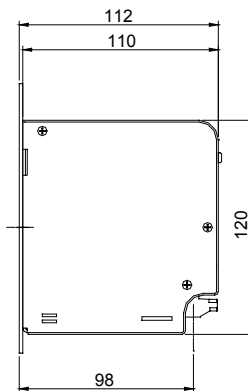
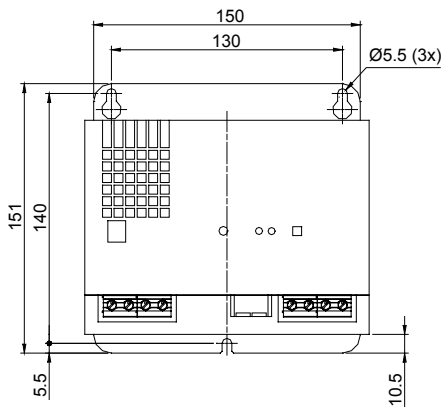


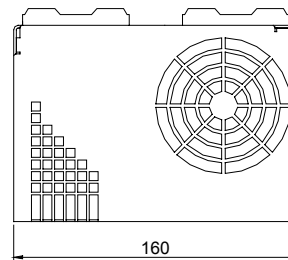


- Input: 120 / 230 VAC switchable (DC 263 – 350V)
- Internal fuse
- Overtemperature protection
- Output adjustable \*
- Parallel connection with load sharing \*
- Power boost with high start-up current 140% Inenn \*
- Control signals \*
- Can be operated in any assembly position

\* additional features, not included in PH 520-2420A model



Wall mounting



DIN rail

ORDER DATA			Order numbers in italics	
Vo V	Io A	Preset range Vo V	Type No. DIN-rail	Type No. Wall mounting
24	0 - 20	-	<b>PH520-2420A</b> 14.6040.120	<b>PH520-2420A</b> 14.6040.125
24	0 - 20	22,5 – 31,5 *	<b>PH520-2420</b> 14.6040.100	<b>PH520-2420</b> 14.6040.105
48	0 - 10	42,5 – 54	<b>PH520-4810</b> 14.6040.300	<b>PH520-4810</b> 14.6040.305



\* max. output 540 watts

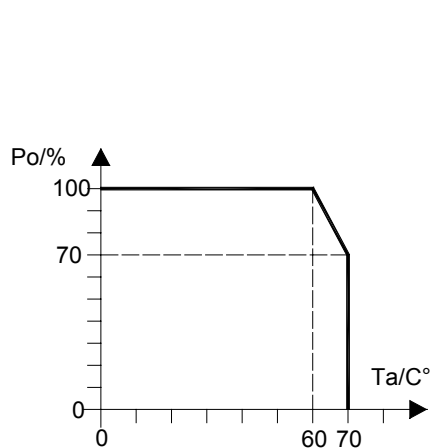
Further output voltages upon request.

Redundancy version (PH520-...R) upon request.

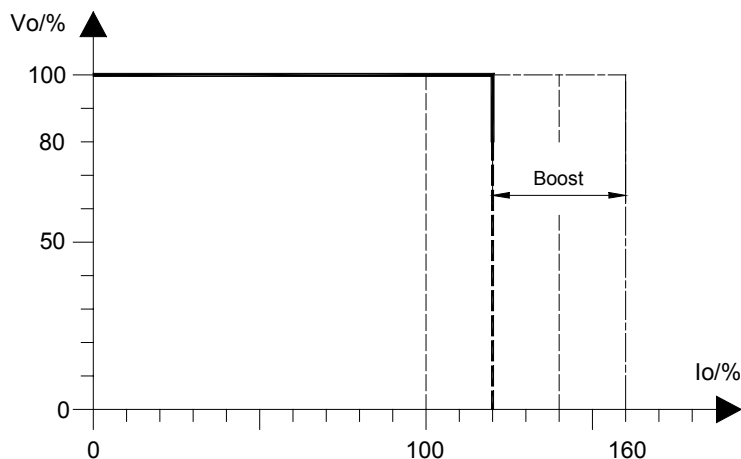
Please ensure a distance of approx. 30mm between both the air-inlet openings at the front of the housing and the air-outlet openings at the top of the device and surrounding components or surfaces.

Also make sure that outgoing air is not sucked back into the device during installation.

INPUT		EMC	
Input voltage range	AC 187 – 264V, 50/60 Hz mechanical switchover to AC 90-134V DC 263 – 350V (on 230V) requiring external DC fuse	Mains feedback (PFC)	EN 61000-3-2 Class A
Efficiency	89%	Flicker	EN 61000-3-3
Input current limitation**	≤ 35 A <sub>peak</sub> typ. in cold state ≤ 70 A <sub>peak</sub> typ. in hot state	Interference suppression/ Interference immunity	EN 61000-6-2 Intensity 4 EN 61000-4-2 Noise level 10V/m EN 61000-4-3 Intensity 4 EN 61000-4-4 Intensity 4 EN 61000-4-5 Noise level 10V/m EN 61000-4-6 Noise level 10V/m EN61000-4-11 ENV 50204 Noise level 10V/m
Internal fuse	16ATH / 250V	Interference emission	EN 50081-1 EN 55011 / EN 55022 Class B Radiation depends on assembly
OUTPUT		OPERATING DATA	
Preset range Vo *	22.5 – 31.5V / 42.5 – 54V	Temperature range	-25°C to 70°C, integral temperature- controlled fan, air intake at front
Tolerance of Vo <sub>nominal</sub>	+/- 0,1V (PH520-2420A 24V -0% / +4%)	Derating	3% / K at +60°C (see diagram)
Max. output	540W	Weight	1.6 kg
Operation indicator **	Green LED for Vo, red LED for error	MECHANICS	
Ripple	80 mV <sub>ss</sub> typ.	Connection	Mains input: 3-pole, 0.6 - 0.7 Nm 0.75-4/6 mm² strand/wire Load output: 4-pole, 0.6 - 0.7 Nm 0.75-4/6 mm² strand/wire Control signals**: 4-pole, 0.79 Nm 0.15 – 2.5 mm (with plug connector)
Noise voltage	120 mV <sub>ss</sub> typ.	Assembly	All systems can be snapped onto a sym- metrical 35mm DIN-rail according to EN 50022 with a diameter of 1 to 2.5 mm or wall-mounted with mounting plates.
Temperature coefficient	0.025% / K	EXPLANATORY NOTES	
Switch on/switch off	No Vo overshoot (soft-start)	PE 	Protective conductor <b>Do not use supply without PE-connection!</b>
Start-up delay	< 1 s	+/-	Load connections
Rise time	15 ms typ., 350 ms at 100.000 µF load	Relais/OK/Fail *	Monitoring connections
PROTECTION AND CONTROLLING		Remote on/off*	Control connections
Overvoltage protection	33/58 V automatic repeat	Switching from single * to parallel operation mode	Use switch at the front of housing
Current limitation	105 – 120% I <sub>nominal</sub> , output permanent short-circuit proof, boost time 1.5 s 140%I <sub>nominal</sub> **	 <b>Please refer to the MGv user instructions before use. (also in internet: <a href="http://www.mgv.de">www.mgv.de</a>)</b>	
Overtemperature protection	Switches off if overheated, reconnection with hysteresis		
Mains buffering	10 ms typ.		
Power-Good-Signal* ("DC OK")	Relais contact (<60V/0.2A), changing at Vo 18-20V / 35-40V from OK to FAIL		
Remote on/off *	External switch-off with >3-24V / 4-60V or switch from Vo		
SAFETY			
	EN 60950 / VDE 0805 / VDE 113 Safety Class I, VDE 0100, IP 20 Sparkling distance in air and leakage distance according to VDE 0160/pr / EN 50178 UL 508 listed / UL 1950 / CSA 22.2-950		
* Additional features, not included in PH520-2420A model ** Values are different for PH520-2420A			



Derating



Current limiting characteristic

Start-up takes place with short-circuit current between 140% and 160% of the nominal current for a period of approx. 0.4 s. Start-up frequency is approx. 0.3 Hz. The average short-circuit current is about 125% I<sub>nominal</sub>